

WHAT IS CLAIMED IS:

1. An ion exchange membrane electrolytic cell comprising:
an anode chamber accommodating an anode and an anode
5 current collector;
a cathode chamber accommodating a hydrogen-generating
cathode and a cathode current collector;
an ion exchange membrane dividing the electrolytic cell
into the anode chamber and the cathode chamber; and
10 a metal coil sandwiched between the anode and the anode
current collector and/or between the hydrogen-generating
cathode and the cathode current collector.

2. An ion exchange membrane electrolytic cell comprising:
15 an anode chamber accommodating an anode and an anode
current collector;
a cathode chamber accommodating a hydrogen-generating
cathode and a cathode current collector;
an ion exchange membrane dividing the electrolytic cell
20 into the anode chamber and the cathode chamber; and
an elastic cushion formed by winding a metal coil around a
corrosion-resistant frame, sandwiched between the anode and
the anode current collector and/or between the hydrogen-
generating cathode and the cathode current collector.

3. An ion exchange membrane electrolytic cell comprising:

an anode chamber having an anode chamber wall and
accommodating an anode;

a cathode chamber having a cathode chamber wall and
5 accommodating a hydrogen-generating cathode;

an ion exchange membrane dividing the electrolytic cell
into the anode chamber and the cathode chamber; and

a metal coil sandwiched between the anode and the anode
chamber wall and/or between the hydrogen-generating cathode
10 and the cathode chamber wall.

4. An ion exchange membrane electrolytic cell comprising:

an anode chamber having an anode chamber wall and
accommodating an anode;

15 a cathode chamber having a cathode chamber wall and
accommodating a hydrogen-generating cathode;

an ion exchange membrane dividing the electrolytic cell
into the anode chamber and the cathode chamber; and

an elastic cushion formed by winding a metal coil around a
20 corrosion-resistant frame, sandwiched between the anode and
the anode chamber wall and/or between the hydrogen-generating
cathode and the cathode chamber wall.

5. An electrode for electrolysis which comprises a metal coil

25 supporting an electrode catalyst thereon or an elastic cushion

supporting an electrode catalyst and formed by winding a metal coil around a corrosion-resistant frame.

6. An electrode for electrolysis which comprises metal cotton
5 supporting an electrode catalyst thereon.

7. An ion exchange membrane electrolytic cell comprising:
an anode chamber accommodating an anode;
a cathode chamber accommodating a cathode; and
10 an ion exchange membrane dividing the electrolytic cell
into the anode chamber and the cathode chamber;
at least one of the anode and cathode being an elastic
electrode supporting an electrode catalyst.

15 8. The ion exchange membrane electrolytic cell as claimed in
claim 7, wherein the elastic electrode is formed by a metal coil,
an elastic cushion and/or metal cotton.

9. The ion exchange membrane electrolytic cell as claimed in
20 claim 7 further comprising an electrode current collector in
contact with the elastic electrode for supplying current from the
electrode current collector.